

Mineral Industry Surveys

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MANGANESE IN MAY 2006

On a gross-weight basis, reported consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 34,300 metric tons (t) in May 2006, which was about a 5% increase compared with that in April 2006, according to the U.S. Geological Survey. Corresponding industry stocks of ore at the end of the month were 248,000 t, which was a 6% decrease from those at the end of April 2006. These data include estimates for annual respondents on the basis of 2005 data.

The following comparisons of trade data were made on the basis of manganese content (table 1). The data for April 2006 tabulated in this report indicate that the total exports of 686 t were 60% lower than those of the prior month, owing primarily to a decrease in exports of ferromanganese. Manganese imports were 65,200 t, which was an increase of 25% compared with those of March 2006. This increase was primarily attributable to increases in manganese ore imports.

Ferroalloy Prices, manganese content

	High-carbon ferromanganese ¹ (dollars per gross ton)	Medium-carbon ferromanganese ¹ (cents per pound)	Silicomanganese ¹ (cents per pound)	Manganese metal ² (cents per pound)
May 4	760.00-780.00	64.00-66.00	36.00-38.00	69.00-71.00
May 11	760.00-780.00	64.00-66.00	36.00-38.00	70.00-72.00
May 18	785.00-810.00	64.00-66.00	36.00-38.00	70.00-72.00
May 25	800.00-820.00	64.00-66.00	36.00-39.00	72.00-74.00

Ore Prices, dollars per metric ton unit, manganese content³

	44% Manganese Ore ²	48% Manganese Ore ²
May 4	1.85-1.95	2.30-2.40
May 11	1.85-1.95	2.30-2.40
May 18	1.85-1.95	2.30-2.40
May 25	1.85-1.95	2.30-2.40

¹Source: Platts Metals Week, dealer import price.

²Source: Ryan's Notes, North American transaction price.

³To determine dollars per metric ton, multiply the manganese content percentage by the price.

TABLE 1
SELECTED U.S. FOREIGN TRADE IN MANGANESE¹

(Metric tons, manganese content)²

	Imports for consumption			Exports		
	Ore and dioxide	Ferroalloy and metal	Total	Ore	Ferroalloy and metal	Total
2005:						
April	38,400	39,900	78,300	2,350	778	3,130
January-April	109,000	156,000	265,000	2,830	4,060	6,890
2006:						
January	20,300	25,600	45,900	46	1,710	1,760
February	27,500	52,600	80,100	87	1,170	1,260
March	4,970	47,400	52,300	63	1,660	1,720
April	30,300	34,800	65,200	25	661	686
Total	83,000	160,000	243,000	221	5,200	5,420

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²As reported except as estimated for imports of manganese dioxide and manganese waste and scrap and for exports from gross weights.

Source: U.S. Census Bureau.

TABLE 2
U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN APRIL 2006¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Australia	2,560	1,690	\$1,620,000	8,380	5,570	\$5,310,000
Georgia	--	--	--	7,000	4,600	4,600,000
Korea, Republic of	--	--	--	10,000	6,480	7,180,000
Mexico	1,500	989	1,050,000	5,230	3,430	3,600,000
Netherlands	21	13	24,000	21	13	24,000
Norway	7,220	4,730	4,710,000	29,000	17,700	24,500,000
South Africa	14,600	9,650	9,360,000	54,000	35,600	34,200,000
Total	25,900	17,100	16,800,000	114,000	73,400	79,500,000

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the material into the United States.

Source: U.S. Census Bureau.

TABLE 3
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN APRIL 2006¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Low carbon:						
China	980	888	\$1,300,000	3,860	3,440	\$5,390,000
Japan	1,500	1,210	1,510,000	1,500	1,210	1,510,000
Korea, Republic of	--	--	--	6,310	5,150	6,090,000
Mexico	759	613	792,000	3,340	2,690	3,420,000
Norway	35	29	46,000	178	144	215,000
South Africa	559	516	793,000	1,440	1,330	2,130,000
Total, low carbon	3,830	3,250	4,440,000	16,600	14,000	18,800,000
Medium carbon, (m.c.) 1%-2% C:						
Brazil	13	11	23,300	13	11	23,300
Korea, Republic of	2,000	1,600	1,590,000	5,300	4,260	3,970,000
Mexico	1,550	1,250	1,100,000	5,720	4,570	4,700,000
South Africa	650	528	426,000	8,280	6,750	6,180,000
Total, m.c., 1%-2% C	4,220	3,390	3,150,000	19,300	15,600	14,900,000
Medium carbon, 2%-4% C, Brazil	--	--	--	19	14	19,300
High carbon:						
Australia	500	389	265,000	4,000	2,940	2,240,000
Brazil	--	--	--	3,010	2,370	1,400,000
Canada	--	--	--	97	58	61,200
China	--	--	--	20	18	28,600
France	--	--	--	1,500	1,170	764,000
Mexico	--	--	--	8	6	8,210
South Africa	10,900	8,390	5,950,000	54,500	42,200	28,500,000
Total, high carbon	11,400	8,780	6,210,000	63,100	48,800	33,000,000
Grand total	19,400	15,400	13,800,000	99,100	78,300	66,600,000

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the material into the United States.

Source: U.S. Census Bureau.

TABLE 4
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE ORE (20% OR MORE Mn) IN APRIL 2006^{1,2}

(Metric tons)

Source	Gross weight	Mn content	Customs value ³	Year to date		
				Gross weight	Mn content	Customs value ³
More than 20%, but less than 47% manganese, Brazil	--	--	--	968	324	\$73,400
47% or more manganese:						
Australia	--	--	--	11,100	5,650	1,580,000
Belgium	54	38	\$45,000	110	76	90,000
Brazil	40	34	92,400	2,960	1,510	301,000
China	--	--	--	993	497	59,600
Gabon	53,100	28,600	5,390,000	134,000	68,700	13,400,000
Morocco	--	--	--	20	17	6,000
Total	53,200	28,600	5,520,000	150,000	76,400	15,400,000
Grand total	53,200	28,600	5,520,000	150,000	76,700	15,500,000

-- Zero.

¹Quantities for general imports and imports for consumption are identical.

²Data are rounded to no more than three significant digits; may not add to totals shown.

³Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the material into the United States.

Source: U.S. Census Bureau.

TABLE 5
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE IN APRIL 2006¹

(Metric tons, gross weight)

Source	Quantity	Customs value ²	Year to date	
			Quantity	Customs value ²
Australia	258	\$347,000	1,160	\$1,550,000
Belgium	57	122,000	293	723,000
Brazil	6	9,830	72	50,200
China	2,240	2,390,000	6,970	7,440,000
Colombia	4	7,630	8	14,400
France	(3)	3,920	3	29,400
Germany	--	--	23	116,000
Japan	300	409,000	1,800	2,480,000
Mexico	--	--	150	183,000
United Kingdom	--	--	(3)	11,300
Total	2,870	3,290,000	10,500	12,600,000

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the material into the United States.

³Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 6
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN APRIL 2006¹

(Metric tons)

Source	Gross weight	Customs value ²	Year to date	
			Gross weight	Customs value ²
Unwrought flake:				
China	510	\$628,000	2,420	\$3,330,000
South Africa	771	1,130,000	2,020	3,380,000
Total	1,280	1,750,000	4,440	6,720,000
Unwrought powder:				
China	122	115,000	879	1,150,000
South Africa	496	913,000	1,090	1,960,000
Total	618	1,030,000	1,970	3,120,000
Unwrought, other:				
China	137	214,000	197	310,000
Germany	24	44,200	316	586,000
South Africa	140	247,000	580	992,000
Spain	37	78,700	408	696,000
Total	338	584,000	1,500	2,580,000
Other manganese, wrought:				
Brazil	--	--	294	210,000
China	59	71,500	325	419,000
France	--	--	11	109,000
Jamaica	1	3,000	1	3,000
Mexico	19	22,900	19	22,900
Netherlands	11	24,200	11	24,200
Total	90	121,000	661	788,000
Grand total	2,330	3,490,000	8,570	13,200,000

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the material into the United States.

Note: There were no imports for consumption of metallic manganese waste and scrap during the reporting month. The year-to-date total, all of which was from Canada, was 331 tons.

Source: U.S. Census Bureau.

TABLE 7
U.S. EXPORTS OF MANGANESE ORE (20% OR MORE Mn), FERROMANGANESE,
SILICOMANGANESE, AND MANGANESE METAL BY COUNTRIES OF DESTINATION IN APRIL 2006¹

(Metric tons, gross weight)

	Manganese ore		Ferromanganese, 2% or less C		Silicomanganese		Manganese metal ²	
	April	Year to date	April	Year to date	April	Year to date	April	Year to date
Australia	--	--	--	--	--	5	3	3
Belgium	--	--	--	--	--	--	104	740
Brazil	--	--	--	--	--	--	--	4
Canada	46	334	419	3,840	2	13	49	165
Chile	--	--	--	--	--	--	--	7
China	--	35	--	--	--	--	--	--
Colombia	--	--	--	--	--	--	--	1
Dominican Republic	--	9	--	--	--	--	--	--
France	--	--	--	--	--	--	--	4
Germany	2	2	--	--	--	--	3	39
Hong Kong	--	--	--	--	--	--	1	2
Indonesia	2	23	--	--	13	13	--	--
Japan	--	--	--	--	--	--	46	199
Korea, Republic of	--	--	--	--	--	--	(3)	(3)
Malaysia	--	--	--	--	--	--	--	3
Mexico	--	--	7	7	25	57	--	7
Netherlands	--	--	--	100	--	9	--	--
Poland	--	21	--	--	--	--	--	--
Portugal	--	--	--	--	--	--	--	2
Sweden	--	19	--	--	--	--	--	16
Trinidad and Tobago	--	--	--	--	--	--	--	1
Total	50	443	427	3,950	39	97	206	1,190

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Includes manganese-aluminum, some other alloys, and waste and scrap.

Note: Exports of ferromanganese with more than 2% carbon totaled 117 tons, of which 101 tons went to Canada, and 16 tons went to Mexico to give a year-to-date total of 1,050 tons.

Source: U.S. Census Bureau.

TABLE 8
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN APRIL 2006, BY CLASS¹

Class	Gross weight (metric tons)	Value ² (thousands)	Principal sources and destinations: gross weight (metric tons); value ² (thousands)	Year to date		
				Gross weight (metric tons)	Value ² (thousands)	Principal sources and destinations: gross weight (metric tons); value ² (thousands)
Imports for consumption:						
Manganese oxides other than dioxide	498	\$505	China 242; \$338	2,160	\$2,100	China 1,030; \$1,300
Manganites, manganates, and other permanganates	--	--	--	8	17	Japan 8; \$17
Potassium permanganate	45	98	Czech Republic 28; \$61	299	656	Czech Republic 137; \$295
Sodium permanganate	16	8	China 16; \$8	16	8	China 16; \$8
Sulfates, basket category, including manganese sulfate	6,030	2,920	China 3,330; \$1,390	19,400	10,800	China 10,500; \$4,640
Exports:						
Manganese dioxide	426	477	Canada 158; \$102	1,800	1,760	Canada 924; \$565
Manganese oxides other than dioxide	2,310	1,020	Canada 1,990; \$718	8,010	3,890	Canada 7,050; \$2,550
Manganites, manganates, and other permanganates	3	7	Canada 3; \$7	17	38	Canada 17; \$38
Potassium permanganate	32	123	Canada 21; \$57	1,050	2,590	Spain 695; \$1,510
Sodium permanganate	287	691	Spain 188; \$486	410	1,210	Spain 201; \$709
Sulfates, basket category, including manganese sulfate	2,340	1,520	Canada 1,900; \$855	7,000	5,040	Canada 5,220; \$2,550

-- Zero.

¹Data are rounded to no more than three significant digits.

²For imports, Customs value; for exports, free alongside ship value.

Source: U.S. Census Bureau.